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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/074,293	02/12/2002	Harry Contopanagos	BP2108	4912	
51472 GARLICK HA	7590 09/10/2010 ARRISON & MARKISO	EXAM	EXAMINER		
P.O. BOX 160		ANDUJAR, LEONARDO			
AUSTIN, TX 78716-0727			ART UNIT	PAPER NUMBER	
			2826		
			NOTIFICATION DATE	DELIVERY MODE	
			09/10/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

MMURDOCK@TEXASPATENTS.COM SMCWHINNIE@TEXASPATENTS.COM

Application No. Applicant(s) 10/074,293 CONTOPANAGOS ET AL. Office Action Summary F.....

		Examiner	AILUIIL			
		Leonardo Andújar	2826			
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ac	ldress		
Period fo	or Reply					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLA- CHEVER IS LONGER, FROM THE MAILING D/ nasions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MCNTHS from the mailing date of this communication. Opening for reply a specified above, the maximum statuto period re- posed to reply a specified above, the maximum statuto period re- reply received by the Office later than three months after the mailing ad patient term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).			
Status						
1)[X]	Responsive to communication(s) filed on 29 Ju	une 2010				
	This action is FINAL . 2b) ☐ This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the me					
-,∟	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
D'	·					
	ion of Claims					
4)⊠	Claim(s) <u>1-3</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
. —	Claim(s) is/are allowed.					
	☑ Claim(s) <u>1-3</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)[_	Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers					
9)	The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acce	epted or b) ☐ objected to by the I	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.		
Priority	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:		ı-(d) or (f).			
	Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No.					
	Copies of the certified copies of the prior			Stage		
	application from the International Bureau	•	su iii tiiis ivationai	Stage		
* 9	See the attached detailed Office action for a list		d			
Coo the attached detailed Office action for a list of the definied copies not received.						
Attachmer						
1) A Notic	ce of References Cited (PTO-892)	Interview Summary Paper No(e)/Mail De				

Attachment(s)		
Notice of References Cited (PTO-892)		nmary (PTO-413)
 Notice of Draftsperson's Patent Drawing Review (PTO 		Mail Date
3) Information Disclosure Statement(s) (FTO/SB/08)	5) Notice of Info	rmal Patent Application
Paper No(s)/Mail Date	6) Other:	
S. Patent and Trademark Office		213 01150000

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DETAILED ACTION

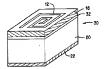
1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/10/2010 has been entered.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Grzegorek et al. (US 5,760,456) in view Wen et al. (US 6,169,008).of further in view of
 Zhu et al. (US 6,133,079).
- 4. Regarding claims 1 and 3, Grzegorek (e.g. figs. 3) teaches an on chip inductor consisting of a first dielectric layer 18; a conductive spiral winding 12 on the first dielectric layer; a heavy doped well 32 having a major surface parallel to a major surface of the first dielectric layer and a substrate 20/22 having a major surface parallel to the major surface of the first dielectric layer (see abstract). Grzegorek does not teach that the well is a p well nor a second dielectric layer having a major surface parallel to a major surface of the first dielectric layer.

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However, Zhu (e.g. fig. 4) teaches an inductor 60 formed over a heavy doped well 28 which is a p well whereas Wen (e.g. fig. 3d) a second dielectric layer 30 having a major surface parallel to a major surface of a first dielectric layer 28. It would have been obvious to one of ordinary skills in the art to include a second dielectric layer having a major surface parallel to a major surface of the first dielectric layer disclosed by Grzegorek to provide a mechanical and environmental protection to the inductor and to make the heavy doped well of Grzegorek in view of Wen as a p type well because the use of a particular known technique was recognized as part of the ordinary capabilities of one skilled in the art and because a person of ordinary skill has a good reason to pursue the known option within his or her technical grasp (see KSR International Co. v. Tleflex Inc., 550 U.S.-,82 USPQ2d 1385 (2007). In this case, the only two available options are p well and n well.

5. Regarding claims 2, Grzegorek (e.g. figs. 3) teaches an on chip inductor consisting of a dielectric layer 18; a conductive winding 12 on the dielectric layer; a heavy doped well 32 having a major surface parallel to a major surface of the dielectric layer and a substrate 20/22 having a major surface parallel to the major surface of the dielectric layer (see abstract). Grzegorek does not teach second dielectric layer having a major surface parallel to a major surface of the first dielectric layer nor that the well is

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a p well or a field oxide having a major surface that is juxtaposed to the major surface of the well. However, Zhu (e.g. fig. 4) teaches an inductor 60 formed over a heavy doped well 28 which is a p well and a field oxide 50 having a major surface that is juxtaposed to the major surface of the well whereas Wen (e.g. fig. 3d) a second dielectric layer 30 having a major surface parallel to a major surface of a first dielectric layer 28.. It would have been obvious to one of ordinary skills in the art to include a second dielectric layer having a major surface parallel to a major surface of the first dielectric layer disclosed by Grzegorek to provide a mechanical and environmental protection to the inductor and to make the heavy doped well of Grzegorek in view of Wen as a p type well and a field oxide having a major surface that is juxtaposed to the major surface of the well as disclosed by Zhu because the use of a particular known technique was recognized as part of the ordinary capabilities of one skilled in the art and because a person of ordinary skill has a good reason to pursue the known option within his or her technical grasp (see KSR International Co. v. Tleflex Inc., 550 U.S.-.82 USPQ2d 1385 (2007), In this case, the only two available options are p well and n well. Moreover, FOXs are conventionally used to isolate the plural devices which are inherently present in the substrate (col. 1/lls. 10-20)

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

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7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonardo Andújar whose telephone number is 571-272-1912. The examiner can normally be reached on Mon through Thu from 9:00 AM to 7:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on 571-272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Leonardo Andújar/ Primary Examiner, Art Unit 2826